

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL ABRACZINSKAS
Director



March 27, 2019 – Draft Renewal

Mr. Brandon Mallard
Plant Manager
Century Furniture, LLC
P. O. Box 608
Hickory, North Carolina 28603

SUBJECT: Air Quality Permit No. 03918T24
Facility ID: 1800044
Century Furniture – Plant No. 1
Hickory, North Carolina
Catawba County
Fee Class: Title V
PSD Status: Major

Dear Mr. Mallard:

In accordance with your completed Air Quality Permit Application for a Renewal of your Title V permit received on June 18, 2018, we are forwarding herewith Air Quality Permit No. 03918T24 to Century Furniture – Plant No. 1, 420 12th Street Drive NW, Hickory, North Carolina, authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.



North Carolina Department of Environmental Quality | Division of Air Quality
217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641
919.707.8400

Mr. Brandon Mallard
XXXX, 2019

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Catawba County has triggered increment tracking under PSD for PM₁₀. However, this permit renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from XXXX, 2019 until XXXX, 2024, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Judy Lee at (919) 707-8429 and Judy.Lee@ncdenr.gov.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

c: Heather Ceron, EPA Region 4
Mooresville Regional Office
Central Files
Connie Horne (cover letter only)

ATTACHMENT to Permit No. 03918T24

Insignificant Activities under 15A NCAC 2Q .0503(8) - Century Furniture – Plant No. 1

Emission Source ID No.	Emission Source Description
I-BL-1 I-BL-2	Two natural gas direct-fired drying ovens (0.8 million Btu per hour maximum heat input capacity, each) and associated bleach lines
I-SP-1-SB-29	One spray booth for the application of bleach to wood furniture
I-H-1	Natural gas-fired hot oil heater located on the veneer press line (1.5 million Btu per hour maximum heat input capacity)
I-PL-1 MACT JJ	Parts line natural gas drying oven (0.8 million Btu per hour maximum heat input capacity)
I-WOT-1 MACT JJ	Wash off tank used to remove finishes/materials from large furniture items due to defects such as “off shade”, scratches, etc.

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the Permittee is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 “Control of Toxic Air Pollutants” or 02Q .0711 “Emission Rates Requiring a Permit.”
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled “Specific Permit Conditions Regulatory Guide.” The link to this site is as follows: <http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide>.

Summary of Changes to Permit

The following changes were made to the Century Furniture – Plant No. 1, Air Permit No. 03918T23:

Page No.	Section	Description of Changes
Cover Letter	N/A	<ul style="list-style-type: none">Updated cover letter with application number, permit numbers, dates, fee class and new letterheadUpdated authorized contact information for the facilityAdded PSD class and increment statement
Attachment	Insignificant activity list	<ul style="list-style-type: none">Added Wash Off Tank per June 18, 2018 request
Attachment	Table of Changes	<ul style="list-style-type: none">Revised for changes made to permit for this renewal
Permit Cover	N/A	<ul style="list-style-type: none">Inserted new issuance and complete application date, application number, facility information
Page 3	Section 1	<ul style="list-style-type: none">Added MACT JJJJJ and updated Case by Case referenceRevised control device configuration for the woodwaste handling and storage system (ID No. S1)Removed asterisks and footnote for SP-1 added as a minor modification and became final on April 14, 2017
Permit – Globally	Section 2 and Section 3	<ul style="list-style-type: none">Updated regulation references from “2D” and “2Q” to “02D” and “02Q” to be consistent with regulation nomenclatureUpdated with shell revisions
Pages 8 – 11	Section 2.1 - C	<ul style="list-style-type: none">Replaced MACT Subpart JJJJJ for Wood-fired boilers with condition provided by Mr. Joe Voelker, RCO
Pages 16 – 19	Section 2.2 - A	<ul style="list-style-type: none">Updated MACT Subpart JJ condition with latest shell revisions
Page 21	Section 2.2 - D	<ul style="list-style-type: none">Added 02D .1806 Odors Rule – This rule has been inadvertently omitted from this facility
Pages 22 – 31	Section 3	<ul style="list-style-type: none">Updated General Conditions (Version 3.6 01/31/12 replaced with Version 5.3, 08/21/2018)



State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
03918T24	03918T23	XXXX, 2019	XXXX, 2024

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: **Century Furniture – Plant No. 1**
Facility ID: **1800044**

Facility Site Location: **420 12th Street NW**
City, County, State, Zip: **Hickory, Catawba County, North Carolina, 28601**

Mailing Address: **Post Office Box 608**
City, State, Zip: **Hickory, North Carolina, 28603**

Application Number: **1800044.18A**
Complete Application Date: **June 18, 2018**

Primary SIC Code: **2511**
Division of Air Quality, **Mooreville Regional Office**
Regional Office Address: **610 East Center Avenue, Suite 301**
Mooreville, NC 28115

Permit issued this the XXth day of XXXX, 2019

William D. Willets, P.E., Chief, Air Permitting Section
By Authority of the Environmental Management Commission

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ATTACHMENT

List of Acronyms

SECTION 1 - PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
4 - 6, 20	ES-B1NG ES-B2NG GA CT JJJJJJ NSPS Dc	Two natural gas-fired boilers (16.738 million Btu per hour maximum heat input capacity, each)	N/A	N/A
6 - 11, 20	ES-B2 GA CT JJJJJJ	One wood fuel-fired boiler (38.4 million Btu per hour maximum heat input capacity)	CD2	One multicyclone (35 nine-inch diameter tubes)
11 - 13, 16 - 20	SP-1 MA CT JJ*	Wood furniture finishing operation consisting of: Sixteen water pan-type spray booths (Nos. SB-1 through SB-12, SB-14, SB-15, SB-17, and SB-18) Eleven baffle-type spray booth (Nos. SB-13, and SB-19 through SB-28) Four dry filter-type spray booth (Nos. SB-16 and SB-30 through SB-32) Ten gluing operations - roll coaters (Nos. ES-G5.1 through ES-G5.10) Seven indirect-fired drying ovens (Nos. ES-SP2.1 through ES-SP2.7)	N/A	N/A
13 - 15	S1	Woodwaste handling and storage system	C3 P5	One transfer cyclone (30 inches in diameter) One bagfilter (7,045 square feet of filter area)
13 - 15	WDSBT	Wood dust storage bin transfer operations	P13	One bagfilter (984 square feet of filter area)

Page Nos.	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
13 - 15	S2	Wood hog**	C2	One cyclone (30 inches in diameter)
13 - 15	WDTU	Wood dust fuel trailer unloading operations** **The wood hog and the wood dust fuel unloading operations cannot be operated simultaneously	P1	One bagfilter (330 square feet of filter area)
13 - 15	S3	Woodworking operations (machine sanding)	P5 through P9 C1	Five bagfilters (7,045 square feet of filter area, each) One transfer cyclone (30 inches in diameter)
13 - 15	ES-W1	Woodworking equipment (rough mill and machine sanding)	CD7 P11-CD1 P12-CD1 C3	Three bagfilters (7,045 square feet of filter area, each) One transfer cyclone (30 inches in diameter)

*the baffle-type spray booth (ID No. SP-1-SB-21) which is not affected by 40 CFR 63, Subpart JJ pursuant to 40 CFR 63.800(c) (exemption for “research and laboratory facilities”)

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Two natural gas-fired boilers (ID Nos. ES-B1NG and ES-B2NG)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.39 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
-	Recordkeeping Requirements	15A NCAC 02D .0524 (40 CFR 60, Subpart Dc)
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources – No applicable requirements per 40 CFR 63.11195(e)	15A NCAC 02D .1111 (40 CFR 63, Subpart JJJJJ)
Hazardous air pollutants	HAP Emissions shall not exceed 10 tons per year of individual HAPs and 25 tons per year of combined HAPs. See Section 2.2 B.	15A NCAC 02Q .0317 MACT Avoidance

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of natural gas that are discharged from these boilers (**ID No. ES-B1NG and ES-B2NG**) into the atmosphere shall not exceed 0.39 pounds per million Btu heat input.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in these sources (**ID No. ES-B1NG and ES-B2NG**).

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from these boilers (**ID No. ES-B1NG and ES-B2NG**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of natural gas in these boilers (**ID No. ES-B1NG and ES-B2NG**).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from these boilers (**ID No. ES-B1NG and ES-B2NG**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in these boilers (**ID No. ES-B1NG and ES-B2NG**).

4. 15A NCAC 02D .0524: NSPS 40 CFR 60, SUBPART Dc

- a. For boilers (**ID Nos. ES-B1NG and ES-B2NG**), the Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60, Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," including Subpart A "General Provisions."

Recordkeeping [15A NCAC 02Q .0508(f)]

- b. The Permittee shall record and maintain records of the amounts of each fuel fired during each month. [40 CFR 60.48c(g)(2)] These records shall be maintained by the Permittee for a period of two years following the date of such record. [40 CFR 60.48c(i)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these recordkeeping requirements are not met.

Reporting/Notifications [15A NCAC 02Q .0508(f)]

- c. The Permittee shall submit a notification of the actual date of initial startup of the boiler to the Regional Supervisor, DAQ, postmarked within 15 days after such date. [40 CFR 60.7, 60.48c(a)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if this notification requirement is not met.

B. One wood fuel-fired boiler (ID No. ES-B2) and associated multicyclone (ID No. CD2)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.45 pounds per million Btu heat input	15A NCAC 02D .0504
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	Biennial Tune-ups and One Time Energy Assessment	15A NCAC 02D .1111
Hazardous air pollutants	HAP Emissions shall not exceed 10 tons per year of individual HAPs and 25 tons per year of combined HAPs. See Section 2.2 B.	15A NCAC 02Q .0317 MACT Avoidance

1. 15A NCAC 02D .0504: PARTICULATES FROM WOODBURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of wood that are discharged from this source (**ID No. ES-B2**) into the atmosphere shall not exceed 0.45 pounds per million Btu heat input.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above by testing the wood fuel-fired boiler (**ID No. ES-B2**) for particulate matter with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in General Condition JJ. Testing shall be completed and the results submitted **by May XX, 2024** **[Enter actual date after 30/45 day notice of permit expiration]** unless an alternate date is approved by the DAQ. If the results of this test are above the limit given in Section 2.1 B.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504.

Monitoring [15A NCAC 02Q .0508(f)]

- d. Particulate matter emissions from this source (**ID No. ES-B2**) shall be controlled by the multicyclone (**ID No. CD2**). To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- a monthly external visual inspection of the system ductwork and material collection unit for leaks; and
 - an annual (for each 12-month period following initial inspection) internal inspection of the multicyclone's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if the multicyclone and ductwork are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- e. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on any control device; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0504 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on any control device.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 B.1.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from this source (**ID No. ES-B2**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 B.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of wood in this source (**ID No. ES-B2**).

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from this source (**ID No. ES-B2**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in Section 2.1 B.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To ensure compliance, once a day the Permittee shall observe the emission point of this source (**ID No. ES-B2**) for any visible emissions above normal. The daily observation must be made for each day of the

calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period.

- i. if visible emissions from this source (**ID No. ES-B2**) is observed to be above normal, the Permittee shall either:
 - (A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - (B) demonstrate that the percent opacity from the emission points of the emission sources in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 B.3.a above.
- ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
 - (A) the above-normal emissions are not corrected per c.i.(A) above;
 - (B) the demonstration in c.i.(B) above cannot be made;
 - (C) the daily observations are not conducted per c.i. above; or
 - (D) "normal" is not established for these sources in the first 30 days following the beginning of operation as required in this condition.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 B.3.c and d above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.11193, 63.11194(a)(1), (b), 63.11200(b)]

- a. For this existing boiler in the biomass subcategory (**ID No. B2**), the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart JJJJJ, "National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers", including Subpart A "General Provisions."

Definitions and Nomenclature

- b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.11237 shall apply.

General Provisions [40 CFR 63.11235]

- c. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart JJJJJ.

Compliance Dates

- d. The Permittee shall achieve compliance with the initial tune up requirement no later than March 21, 2014. *The Permittee met this requirement for ES- B2 in October 2013.* [40 CFR 63.11196(a)(1), 63.11210(c)]
- e. The Permittee shall comply with the energy assessment requirement no later than March 21, 2014. *This assessment was performed for the boiler (ES-B2) in October 2013.* [40 CFR 63.11196(a)(3)]

Notification of Compliance Status [40 CFR 63.11225]

- f. The Permittee shall submit a Notification of Compliance Status no later than July 19, 2014. *The Permittee met this requirement on 07/16/2013.*

General Compliance Requirements [15A NCAC 02Q .0508(b)]

- g. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.11205(a)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

Performance Tune-up Requirements [15A NCAC 02Q .0508(b)]

- h. The Permittee shall conduct an initial tune-up of the boiler and subsequent tune-ups biennially.
 - i. Each biennial tune-up shall be conducted no more than 25 months after the previous tune-up.
 - ii. The Permittee shall conduct the tune-ups while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.
 - iii. The tune-ups shall be conducted according to the following procedures:
 - (A) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
 - (B) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - (C) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
 - (D) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
 - (E) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
 - (F) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
- [40 CFR 63.11201(b), Table 2, 40 CFR 63.11223(a), (b)]
- iv. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if these requirements are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(b)]

- i. The Permittee shall conduct a one-time energy assessment performed by a qualified energy assessor. *This assessment was performed for the boiler (ES-B2) in October 2013.*
[40 CFR 63.11201(b), Table 2]

Recordkeeping [15A NCAC 02Q .0508(f)]

- j. The Permittee shall maintain the following records:
 - i. As required in 40 CFR 63.10(b)(2)(xiv), the Permittee shall keep a copy of each notification and report that was submitted to comply with this rule and all documentation supporting any Notification of Compliance Status that was submitted.
 - ii. The Permittee shall keep the following records to document conformance with the performance tune-ups:
 - (A) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
 - (B) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (C) A description of any corrective actions taken as a part of the tune-up of the boiler.
 - (D) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
 - iii. The Permittee shall keep a copy of each boiler energy assessment report.
 - iv. Records of the occurrence and duration of each malfunction of the boiler or of the associated air pollution control and monitoring equipment.
 - v. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in **Section 2.1 A.4.g**, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
 - vi. For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), the Permittee shall keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2 and each of the legitimacy criteria in 40 CFR 241.3(d)(1). If the fuel received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, you must keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a).
[40 CFR 63.11225(c), 63.11223(b)(6)]
- k. The records must be in a form suitable and readily available for expeditious review. The Permittee shall keep each record for 5 years following the date of each recorded action. The Permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years. [40 CFR 63.11225(d)]
- l. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in **Sections 2.1 A.4.j and k** are not met.

Reporting [15A NCAC 02Q .0508(f)]

- m. The reporting requirements of 40 CFR 63.11225(b) shall be met by complying with General Condition P of Section 3 of this permit.

C. One furniture finishing operation (ID No. SP-1) consisting of:

- sixteen water pan-type spray booths (Nos. SB-1 through SB-12, SB-14, SB-15, SB-17, and SB-18)
- eleven baffle-type spray booth (Nos. SB-13 and SB-19 through SB-28)
- four dry filter-type spray booth (Nos. SB-16 and SB-30 through SB-32)
- ten gluing operations - roll coaters (Nos. ES-G5.1 through ES-G5.10)
- seven indirect-fired drying ovens (Nos. ES-SP2.1 through ES-SP2.7)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	<u>Adequate ductwork and properly designed collectors</u>	15A NCAC 02D .0512
Visible emissions	(ID Nos. SP-1-SB-30 through SP-1-SB-32 only) 20 percent opacity (ID Nos. SP-1-SB-1 through SP-1-SB-28 only) 40 percent opacity	15A NCAC 02D .0521
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants from Wood Furniture Manufacturing Operations See Section 2.2 A	15A NCAC 02D .1111 (40 CFR 63, Subpart JJ)
Hazardous air pollutants	HAP Emissions shall not exceed 10 tons per year of individual HAPs and 25 tons per year of combined HAPs. See Section 2.2 B.	15A NCAC 02Q .0317 MACT Avoidance

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate ductwork and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from these sources (**ID Nos. SP-1-SB-1 through SP-1-SB-28 and SP-1-SB-30 through SP-1-SB-32**) shall be controlled by adequate ductwork and properly designed collectors. To ensure compliance, the Permittee shall perform inspections and maintenance. As a minimum, the inspection and maintenance program shall include:
- i. weekly inspection of the spray booths' filters noting their condition, and
 - ii. annual (for each 12-month period following the initial inspection) inspection of the associated ductwork noting structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the filters are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any filters or ductwork.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit the results of any maintenance performed on the filters or ductwork within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 C.1.b and c postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the spray booths (**ID Nos. SP-1-SB-1 through SP-1-SB-28**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.
- b. Visible emissions from the spray booths (**ID Nos. SP-1-SB-30 through SP-1-SB-32**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C.2.a or b above, as applicable, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- d. To ensure compliance, once a month the Permittee shall observe the emission points of these spray booths (**ID Nos. SP-1-SB-1 through SP-1-SB-28 and SP-1-SB-30 through SP-1-SB-32**) for any visible emissions above normal. The monthly observation must be made for each month of the calendar year period to ensure compliance with this requirement.
 - i. if visible emissions from the spray booths (**ID Nos. SP-1-SB-1 through SP-1-SB-28 and SP-1-SB-30 through SP-1-SB-32**) are observed to be above normal, the Permittee shall either:
 - (A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - (B) demonstrate that the percent opacity from the emission points of the emission sources in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 C.2.a or b above.
 - ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
 - (A) the above-normal emissions are not corrected per c.i.(A) above;
 - (B) the demonstration in c.i.(B) above cannot be made;
 - (C) the monthly observations are not conducted as required in this condition; or
 - (D) "normal" is not established for these sources in the first 30 days following the beginning of operation as required in this condition.

Recordkeeping [15A NCAC 02Q .0508(f)]

- e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- f. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 C. 2.d and e above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

D. Woodwaste handling and storage system (ID No. S1) with one transfer cyclone (ID No. C3) installed in series with one bagfilter (ID No. P5)

Wood dust storage bin transfer operations (ID No. WDSBT) with one bagfilter (ID No. P13)

Wood hog (ID No. S2) with associated cyclone (ID No. C2) installed in series with one bagfilter (ID No. P1)*

Wood dust fuel trailer unloading operations (ID No. WDTU) with associated cyclone (ID No. C2) installed in series with one bagfilter (ID No. P1)*

Woodworking operations (ID No. S3) with associated bagfilters (ID Nos. P5 through P9) controlling separate group processes installed in series with one transfer cyclone (ID No. C1)

Woodworking equipment (ID No. ES-W1) with associated bagfilters (ID Nos. CD7, P11-CD1 and P12-CD1) controlling separate group processes installed in series with one transfer cyclone (ID No. C3)

**The wood hog and the wood dust fuel unloading operations cannot be operated simultaneously.*

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	Adequate ductwork and properly designed collectors	15A NCAC 02D .0512
Visible emissions	(ID Nos. S2, ES-W1, WDSBT and WDTU) 20 percent opacity (ID Nos. S1 and S3) 40 percent opacity	15A NCAC 02D .0521

1. 15A NCAC 02D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from the wood dust collection system (ID Nos. S1, S2, S3, ES-W1, WDSBT, and WDTU) shall be controlled by three cyclones (ID No. C1, C2 and C3) and ten bagfilters (ID Nos. P1, P5 through P9, CD7, P11-CD1, P12-CD1 and P13). To ensure compliance, the Permittee shall perform

inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:

- i. monthly external inspection of the ductwork, cyclones and bagfilters noting the structural integrity; and
- ii. annual (for each 12-month period following the initial inspection) internal inspection of the bagfilter noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclone and bagfilter are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Sections 2.1 D. 1.b. and c. above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the wood dust collection system (**ID Nos. S2, ES-W1, WDSBT and WDTU**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.
- b. Visible emissions from these sources (**ID Nos. S1 and S3**) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

- c. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in Section 2.1 D.2.a or b above, as applicable, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- d. To ensure compliance, once a week the Permittee shall observe the emission points of the wood dust collection system (**ID No. WC-1**) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement.
 - i. if visible emissions from the woodworking and wood dust collection systems (**ID Nos. S1, S2, S3, ES-W1, WDSBT, and WDTU**) are observed to be above normal, the Permittee shall either:
 - (A) take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or

(B) demonstrate that the percent opacity from the emission points of the emission sources in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limits given in Sections 2.1 A.2.a or b above.

- ii. The Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521 if:
 - (A) the above-normal emissions are not corrected per c.i.(A) above;
 - (B) the demonstration in c.i.(B) above cannot be made;
 - (C) the monthly observations are not conducted as required in this condition; or
 - (D) “normal” is not established for these sources in the first 30 days following the beginning of operation as required in this condition.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities given in Sections 2.1 A.2.c and d. above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. 15A NCAC 02Q .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY for 40 CFR Part 63, Subpart JJ: NATIONAL EMISSIONS STANDARD FOR WOOD FURNITURE MANUFACTURING OPERATIONS

One furniture finishing operation (ID No. SP-1) consisting of:

- sixteen water pan-type spray booths (Nos. SB-1 through SB-12, SB-14, SB-15, SB-17, and SB-18)
- eleven baffle-type spray booth (Nos. SB-13, and SB-19 through SB-28)
- four dry filter-type spray booth (Nos. SB-16 and SB-30 through SB-32)
- ten gluing operations - roll coaters (Nos. ES-G5.1 through ES-G5.10)
- seven indirect-fired drying ovens (Nos. ES-SP2.1 through ES-SP2.7)

*Except for the baffle-type spray booth (ID No. SP-1-SB-21) which is not affected by 40 CFR 63, Subpart JJ pursuant to 40 CFR 63.800(c), which provides an exemption for “research and laboratory facilities.”

APPLICABILITY

1. The wood furniture manufacturing operations (ID No. SP-1) shall comply with all requirements of 15A NCAC 02D .1111 “Maximum Achievable Control Technology” and 40 CFR Part 63 Subpart JJ “National Emission Standards for Wood Furniture Manufacturing Operations.”

DEFINITIONS AND NOMENCLATURE

2. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.801 shall apply.

REGULATED POLLUTANTS

3. Volatile Hazardous Air Pollutants (VHAPs), Volatile Organic Compounds (VOCs) and Organic HAP Solvent as defined in 40 CFR 63.801.

GENERAL PROVISIONS

4. The Permittee shall comply with the requirements of 40 CFR Part 63 Subpart A “General Provisions” according to the applicability of Subpart A to such sources, as identified in Table 1 of 40 CFR Part 63, Subpart JJ.

WORK PRACTICE STANDARDS

5. The Permittee shall adhere to the work practice standards as specified by 40 CFR 63.803.
 - a. **Recordkeeping Requirements** - The Permittee shall prepare, maintain, and follow a written work practice implementation plan in accordance with 40 CFR 63.806(e) that defines environmentally desirable work practices for each wood furniture manufacturing operation and addresses each of the work practice standards specified in items (i) through (xi), below:
 - i. Operator training - in accordance with 40 CFR 63.803(b),
 - ii. Inspection and maintenance plan - in accordance with 40 CFR 63.803(c),
 - iii. Cleaning and wash-off solvent accounting system - in accordance with 40 CFR 63.803(d),
 - iv. Chemical composition of cleaning and wash-off solvents - in accordance with 40 CFR 63.803(e),
 - v. Spray booth cleaning - in accordance with 40 CFR 63.803(f),
 - vi. Storage requirements - in accordance with 40 CFR 63.803(g),
 - vii. Application equipment requirements - in accordance with 40 CFR 63.803(h),
 - viii. Line cleaning - in accordance with 40 CFR 63.803(i),
 - ix. Gun cleaning - in accordance with 40 CFR 63.803(j),
 - x. Wash-off operations - in accordance with 40 CFR 63.803(k), and
 - xi. Formulation assessment plan - in accordance with 40 CFR 63.803(l).

- b. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(8) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(8) and 63.807(c). The Permittee shall follow the reporting requirements in 40 CFR 63.807(e) as required and 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

FINISHING OPERATIONS

6. Per 40 CFR 63.804(a)(4), the Permittee has chosen to use the **compliant coatings** compliance option for the finishing operations (**ID Nos. SP-1-SB-1 through SP-1-SB-20, SP-1-SB-22 through SP-1-SB-28, and SP-1-SB-30 through SP-1-SB-32**).
- a. **Emission Limits** - The Permittee shall comply with all provisions of 40 CFR 63.802(a)(1) and 63.804(a)(2) as applicable to the finishing operations (**ID Nos. SP-1-SB-1 through SP-1-SB-20, SP-1-SB-22 through SP-1-SB-28, and SP-1-SB-30 through SP-1-SB-32**). All thinners, stains, washcoats, sealers, topcoats, basecoats and enamels used at the facility shall meet the emission limitations as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
SP-1-SB-1 through SP-1-SB-20 SP-1-SB-22 through SP-1-SB-28 SP-1-SB-30 through SP-1-SB-32	thinners	10% by weight HAP
	stains, washcoats, sealers, topcoats, basecoats, and enamels	1.0 lb VHAP/lb (or kg VHAP/kg) solids, as applied
	washcoat, basecoat, or enamel formulated on-site	coatings - 1.0 lb VHAP/lb (or kg VHAP/kg) solids thinners - 3.0% by weight VHAP

- b. **Compliance Procedures and Monitoring Requirements** - Emissions sources (**ID Nos. SP-1-SB-1 through SP-1-SB-20, SP-1-SB-22 through SP-1-SB-28, and SP-1-SB-30 through SP-1-SB-32**) are using both noncontinuous and continuous coaters. The Permittee shall demonstrate that only compliant thinners are used and that all stains, washcoats, sealers, topcoats, basecoats and enamels are compliant, as applied, in accordance with 40 CFR 63.804(g)(2) for noncontinuous coaters and 40 CFR 63.804(g)(3) for continuous coaters.
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.804(g)(2), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i) and 63.806(j).
- e. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(2) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(2) and 63.807(c). The Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

CLEANING OPERATIONS

7. a. **Emission Limits** - The Permittee shall comply with the limits of 40 CFR 63.802(a)(3) applicable to the strippable spray booth operations (**ID Nos. SP-1-SB-1 through SP-1-SB-20, SP-1-SB-22 through SP-1-SB-28, and SP-1-SB-30 through SP-1-SB-32**) as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
SP-1-SB-1 through SP-1-SB-20 SP-1-SB-22 through SP-1-SB-28 SP-1-SB-30 through SP-1-SB-32	strippable spray booth coatings	0.8 lb VOC per lb (or kg VHAP/kg) solids, as applied

- b. **Compliance Procedures and Monitoring Requirements** - The Permittee shall demonstrate that only compliant strippable spray booth coatings are used in accordance with 40 CFR 63.804(g)(7).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - The Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(3), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - The Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(7) and 63.807(b). The Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(7) and 63.807(c). The Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

CONTACT ADHESIVE OPERATIONS

8. a. **Emission Limits** - The Permittee shall comply with all provisions of 40 CFR 63.802(a)(2) and 63.804(b-c) as applicable to the gluing operation (**ID No. SP-1-ES-G5.1 through SP-1-ES-G5.10**) as detailed in the following table:

Emission Source	Regulated material	Emission Limitation
SP-1-ES-G5.1 through SP-1-ES-G5.10	foam contact adhesives used in products which meet flammability requirements per California Technical Bulletin 116, 117, or 133, the Business and Institutional Furniture Manufacturers Association's (BIFMA's) X5.7, UFAC flammability testing, or any similar requirements from local, State, or Federal fire regulatory agencies	1.8 lb VHAP per lb solids (1.8 kg VHAP per kg) solids, as applied
	all other contact adhesives	1.0 lb VHAP/lb solids (1.0 kg VHAP per kg), as applied

- b. **Compliance Procedures and Monitoring Requirements** - When the gluing operation (**ID Nos. SP-1-ES-G5.1 through SP-1-ES-G5.10**) is using foam and other contact adhesives, the Permittee shall demonstrate that only compliant adhesives are used in accordance with 40 CFR 63.804(g)(5).
- c. **Performance Test Method** - EPA Method 311 [40 CFR Part 63 Appendix A] shall be used to determine the VHAP content of liquid coatings in foam and other contact adhesives in accordance with 40 CFR 63.805(a).
- d. **Recordkeeping Requirements** - When foam and other contact adhesives are used, the Permittee shall keep records in accordance with 40 CFR 63.806(a) following the applicability criteria in 40 CFR 63.800(d), 63.806(b)(1) and (b)(2), 63.806(h), 63.806(i), and 63.806(j).
- e. **Reporting Requirements** - When foam and other adhesives are used, the Permittee shall submit the compliance status report to the Regional Supervisor in accordance with 40 CFR 63.804(f)(5) and 63.807(b).

When foam and other contact adhesives are used, the Permittee shall submit semiannual reports to the Regional Supervisor in accordance with 40 CFR 63.804(g)(5) and 63.807(c). When foam and other contact adhesives are used, the Permittee shall follow the reporting requirements in 40 CFR 63.807(a) following the applicability criteria in 40 CFR 63.800(d).

FORMALDEHYDE REQUIREMENTS

9. The Permittee shall comply with one of the following two options:
- a. **Option #1 (400 lb formaldehyde limit per rolling 12 month period)** –
 - i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), limit total formaldehyde (F_{total}) use in coatings and contact adhesives to no more than 400 pounds per rolling 12-month period.
 - ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), calculate total formaldehyde emissions from all finishing materials and contact adhesives used at the facility using Equation 5 and maintain a value of F_{total} no more than 400 pounds per rolling 12-month period.
 - iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep records of the formaldehyde content, in lb/gal, as applied, of each finishing material and contact adhesive subject to the emission limits of 40 CFR 63.802(a) and (b).
 - iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 63.807(c).
 - b. **Option #2 (CPDS \leq 1.0% by weight formaldehyde)** –
 - i. **Emissions Limits** – In accordance with 40 CFR 63.802(a) and (b), use coatings and contact adhesives only if they are low-formaldehyde coatings and adhesives, in any wood furniture manufacturing operations. *Low-formaldehyde* means, in the context of a coating or contact adhesive, a product concentration of less than or equal to 1.0 percent formaldehyde by weight, as described in a certified product data sheet for the material.
 - ii. **Compliance Procedures and Monitoring Requirements** – In accordance with 40 CFR 63.804(h), demonstrate compliance by use of coatings and contact adhesives only if they are *low-formaldehyde* coatings and contact adhesives maintaining a certified product data sheet for each coating and contact adhesive used and submitting a compliance certification with the semi-annual report.
 - iii. **Recordkeeping Requirements** – In accordance with 40 CFR 63.806(b), the Permittee shall keep a certified product data sheet for each coating and contact adhesive used.
 - iv. **Reporting Requirements** - The Permittee shall submit semi-annual reports to the Regional Supervisor in accordance with 40 CFR 40 CFR 63.807(c) and 40 CFR 63.804(h). The compliance certification shall state that low-formaldehyde coatings and contact adhesives, as applicable, have been used each day in the semiannual reporting period or should otherwise identify the periods of noncompliance and the reasons for noncompliance. An affected source is in violation of the standard whenever a coating or contact adhesive that is not low-formaldehyde, as demonstrated by records or by a sample of the coating or contact adhesive, is used. Use of a noncompliant coating or contact adhesive is a separate violation for each day the noncompliant coating or contact adhesive is used. The compliance certification shall be signed by a responsible official of the company that owns or operates the affected source.

B. Affected Sources – Sources subject to 15A NCAC 02Q. 0317: Avoidance Conditions Limitation to Avoid Being a Major Source for Hazardous Air Pollutants

Two natural gas-fired boilers (ID Nos. ES-B1NG and ES-B2NG)

One wood fuel-fired boiler (ID No. ES-B2) and associated multicyclone (ID No. CD2)

One furniture finishing operation (ID No. SP-1)

The above emission sources are subject to this multiple emission source limit:

Regulated Pollutants	Limits/Standards	Applicable Regulation
Hazardous air pollutants	HAP Emissions shall not exceed 10 tons per year of any HAP and less than 25 tons per year of combined HAPs	15A NCAC 02Q .0317 for MACT Avoidance

1. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D .1109: 112(j) CASE-BY-CASE MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. In order to remain classified a minor source for hazardous air pollutants and avoid applicability of this regulation, facility emissions shall be less than:
- 10 tons per year of each hazardous air pollutant, and
 - 25 tons per year of all hazardous air pollutants combined.
- The Permittee shall be deemed in noncompliance with the 15A NCAC 02D .1109 if the HAP emissions exceed these limits.

Monitoring/Recordkeeping Requirements [15A NCAC 02Q .0317(b)]

- b. The Permittee shall maintain in a logbook (written or electronic format) on-site and made available to an authorized representative upon request records of the following:
- the monthly consumption of materials containing HAPs from the finishing operation;
 - the monthly amounts of each fuel consumed;
 - the quantity of each individual HAP emitted by the facility each month (in tons) and for the 12-month period ending on that month, and
 - The quantity of all HAPs emitted by the facility each month (in tons) and for the 12-month period ending on that month.
- The Permittee shall be deemed in noncompliance with the 15A NCAC 02D .1109 if the HAP emissions are not monitored or records are not maintained.

Reporting Requirements [15A NCAC 02Q .0317(b)]

- c. The Permittee shall submit to the Regional Supervisor, Division of Air Quality a summary report of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding six month period between July and December and July 30 of each year for the preceding six month period between January and June including:
- the quantity in tons of each individual HAP emitted
 - for each month during the semiannual period and
 - for each 12-month period ending on each month during the semiannual period.
 - the quantity in tons of all HAPs emitted
 - for each month during the semiannual period and
 - for each 12-month period ending on each month during the semiannual period.

C. Facility-wide sources emitting toxic air pollutants**STATE-ENFORCEABLE ONLY****1. 15A NCAC 02Q .0711: EMISSION RATES REQUIRING A PERMIT**

- a. The facility shall be operated and maintained in such a manner that any new, existing or increased actual emissions of any Toxic Air Pollutant (TAP) listed in 15A NCAC 02Q .0711 or in this permit from all sources at the facility (excluding those sources exempt under 15A NCAC 02Q .0702 “Exemptions”), including fugitive emissions and emission sources not otherwise required to have a permit, will not exceed its respective TAP permitting emission rates (TPER) listed in 15A NCAC 02Q .0711 without first obtaining an air permit to construct or operate.
- b. PRIOR to exceeding any of the TPERs listed in 15A NCAC 02Q .0711, the Permittee shall be responsible for obtaining an air permit to emit TAPs and for demonstrating compliance with the requirements found in 15A NCAC 02D .1100 “Control of Toxic Air Pollutants.”
- c. The Permittee shall maintain at the facility records of operational information sufficient for demonstrating to the Division of Air Quality staff that actual TAPs are less than the rate listed in 15A NCAC 02Q .0711.
- d. The TPER table listed below is provided to assist the Permittee in determining when an air permit is required pursuant to 15A NCAC 02Q .0711 and may not represent all TAPs being emitted from the facility. This table will be updated at such time as the permit is either modified or renewed.

TPERs Limitations				
Pollutant (CAS Number)	Carcinogens (lbs/yr)	Chronic Toxicants (lbs/day)	Acute Systemic Toxicants (lbs/hr)	Acute Irritants (lbs/hr)
Ammonia (7664-41-7)				0.68
n-Hexane (110-54-3)		23		

D. Facility-wide sources emitting odorous emissions**STATE-ENFORCEABLE ONLY****1. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS**

The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

SECTION 3 - GENERAL CONDITIONS (Version 5.3, 08/21/2018)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
 - a. changes in the information submitted in the application;
 - b. changes that modify equipment or processes; or
 - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
 - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
 - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
 - c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
 - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
 - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
 - b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]
To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A Reporting Requirements for Excess Emissions and Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*

"Deviations" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. Emergency Provisions [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.

3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional

requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 02Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)** – FEDERALLY-ENFORCEABLE ONLY

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound